



Mobile Learning Today

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*Mobile Learning
Immersive Learning Technologies*

ADL Co-Lab

08/19/2009



Let's Discuss...

- What is mobile learning?
- What are the types of mobile learning today?
- Who is doing what? (examples)
- What does the future look like?
- Where do I learn more?



What is Mobile Learning?



Mobile Learning

- What is mobile?
- What is learning?
- Ubiquitous computing





Wikipedia Definition

“Learning that happens across locations, or that takes advantage of learning opportunities offered by portable technologies.”



Five Moments of Learning Needs

- When learning for the first time
- When wanting to learn more
- When trying to remember
- When things change
- When something goes wrong



Dr. Conrad Gottfredson





Types of Mobile Learning



Options Today

e-Learning (Lite)

Performance Support

- On the job support
- Access to information, education and reference
- Podcasts
- Updates and alerts
- Forms and checklists

Collaboration

- Coaching
- Mentoring
- Social networking

Assessment

- Quizzes
- Tests
- Surveys and polls
- Certification

Innovation

- Games and simulations
- Location-based
- Augmented Reality

User Generated Content



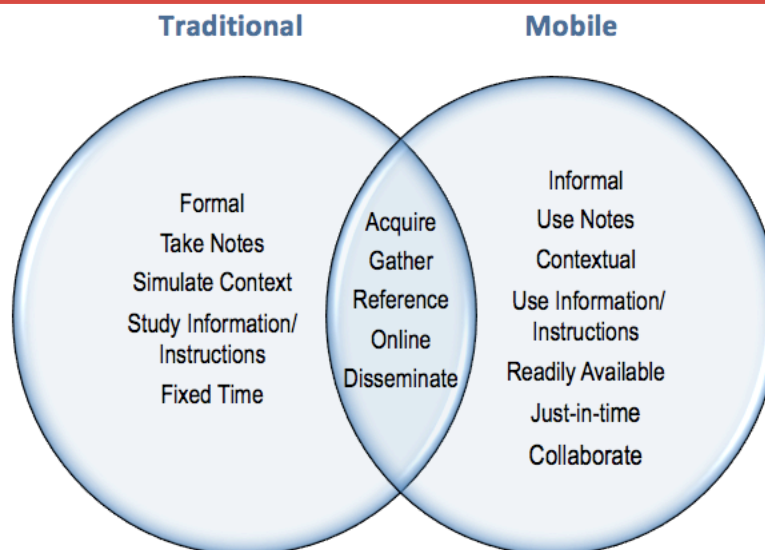
Learning Modules, What Else?

Assessment	Content	Mobile Options	Performance
<ul style="list-style-type: none"> • Quiz • Alerts • Survey • Test • Poll • Feedback • Point-in-time status check 	<ul style="list-style-type: none"> • Review/remember • Audio recordings • Video recordings • On-demand access • Field guide • Reference • Presentations • Micro learning • Assignments • Updates 	<ul style="list-style-type: none"> • Location specific • Augmented reality • Simulation • Game-based learning • Reporting • Capture/share/document • Geo-exploration • Geo-blogging • Note taking • Just-in-time 	<ul style="list-style-type: none"> • Job aid/check list • Decision support • Coaching/mentoring • Conferencing • Reminders • Translation • Transcription • Organization • Procedures

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Opportunities



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Capabilities

- Computer
- Voice recorder
- Camera
- Scanner
- Reader
- Connectivity
- Audio and video player
- GPS
- More...



Getty Image



ADVANCED DISTRIBUTED LEARNING

Who Is Doing What?





Merrill Lynch GoLearn

- Learn when can
- 7 week pilot
- Results 1% higher
- 45% less time
- 100% want more
- 99% felt format supports learning



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Louisiana Community and Technical Colleges (LCTCS)

- Partnered with Pearson
- Workforce shortage > 90,000 jobs
- Expand instructional opportunities
- "Downtime becomes productive time"



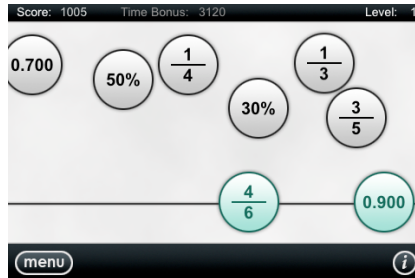
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Virginia Mobile Learning Apps Development Challenge

93% of 6-to-9 year olds live in a home with a cell phone;

- more than 50% own a portable video game device;
- 30% have a personal cell phone; and
- 20% have personal digital music players.



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Mobile Learning “Pills”

- Receive email or SMS notice
- Performance tracking (SCORM) to Corporate LMS
- Receive Just in Time individual remediation

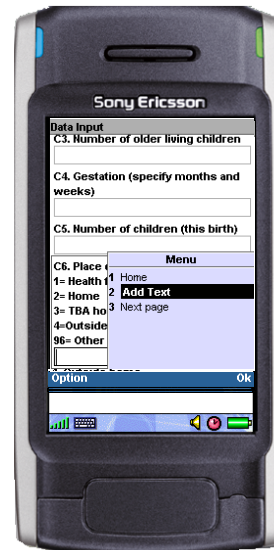


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Health Management in Developing Countries

- Learning pills
- Newborn
- Data collection



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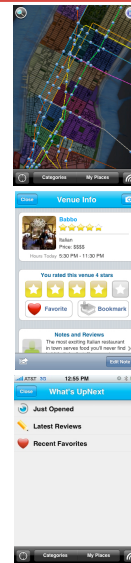


Guide Books

- Tap
- Category Search
- Keyword search
- Add notes
- Receive updates



UpNext NYC

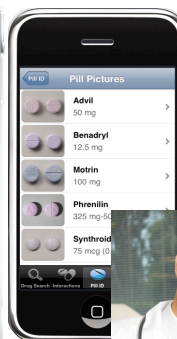


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Epocrates Mobile CME

- Credits
- Multiple specialties
- Short
~15 minutes
- Frequent new courses
- Free

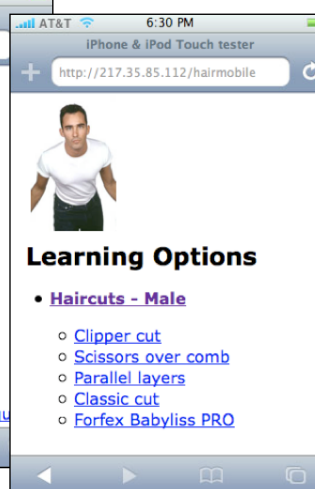
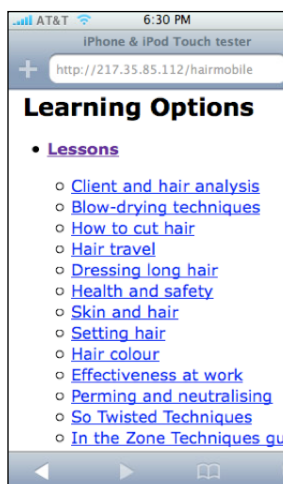


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Welcome to Hairdressing Training

Voted Britain's
best example
of handheld
learning



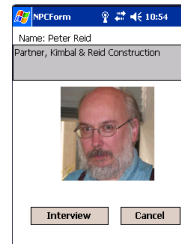
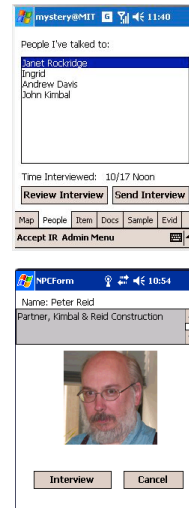
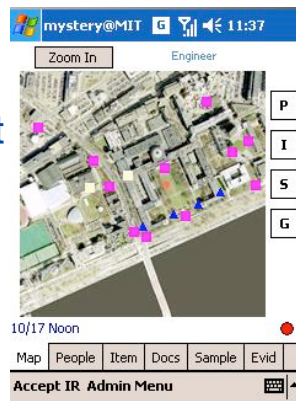
<http://htmob.mobi/demo/>

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Augmented Reality Scientific Role Play Environments

- Game Engine decoupled from Game Content
- Desktop PC-based AR content editor
- Significant collaboration, teamwork, and inquiry-based learning



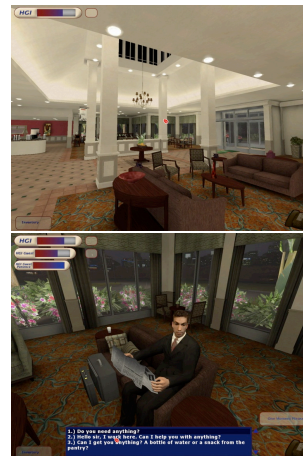
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Hilton Garden Inn - Ultimate Team Play

“Ultimate Team Play is part of our ongoing commitment to making employee training compelling and relevant, which are our two most important criteria for ensuring long-term customer service success.”

Adrian Kurre



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Sun Mobile Learning

"[J]ust in time,
just the right
size and
exactly what
they are
looking for"

http://www.youtube.com/watch?v=bakgX_wLt4w



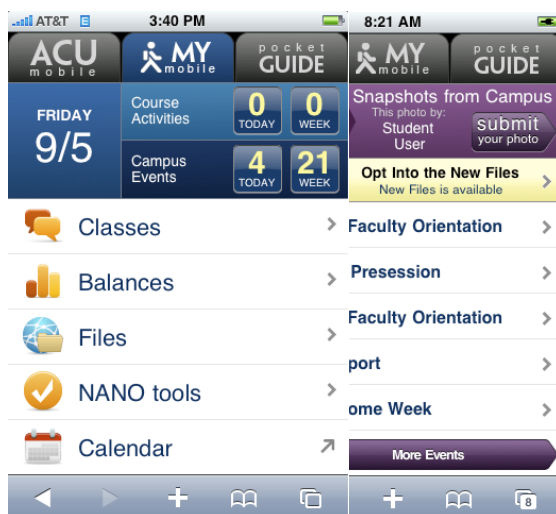
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Abilene Christian University

- Syllabus
- "Clicker"
- Resources - dictionary, thesaurus, calculator, etc.
- Classroom communicator
- Podcasting client
- eBook
- Internet communicator
- Course information
- Notetaking
- Gradebook/attendance

<http://m.acu.edu>



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Onboarding... What Else?

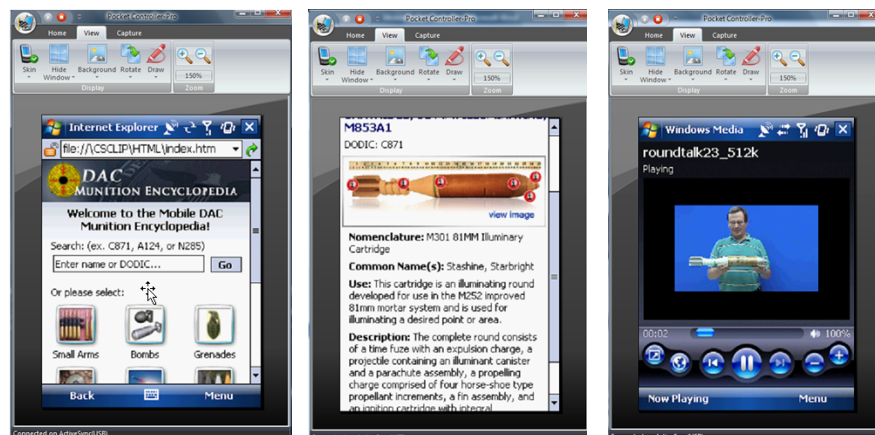
- Constant updates
- Easy to use
- Location aware
- Integrated
- Communication



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Defense Ammunition Center Munitions Encyclopedia



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Air Force Medical

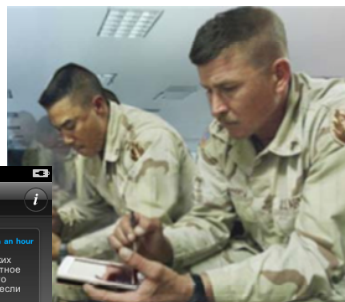


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Language Learning and Review

- CL-150 community license
- DLI, Navy, Marines, SOCOM

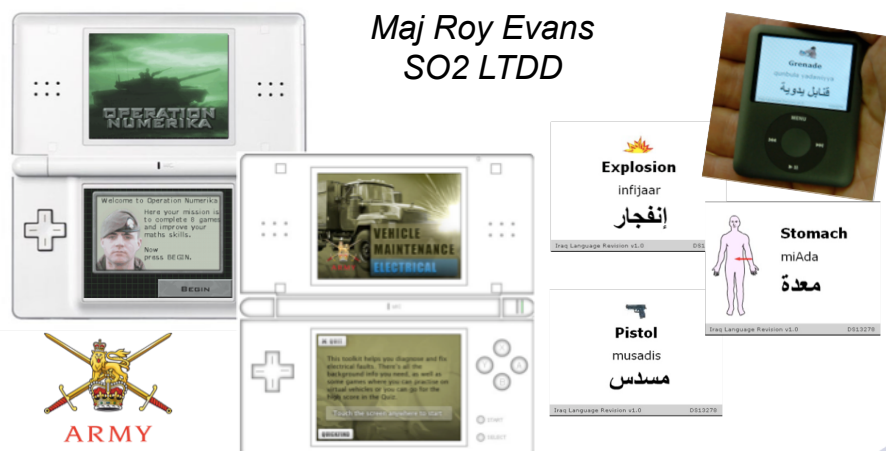


Transparent
Language

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British Mobile Initiatives



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Directorate of Learning Innovation Canadian Defence Academy

- RCMP Investigator's Toolbox
- BlackBerry
- Desire2Go

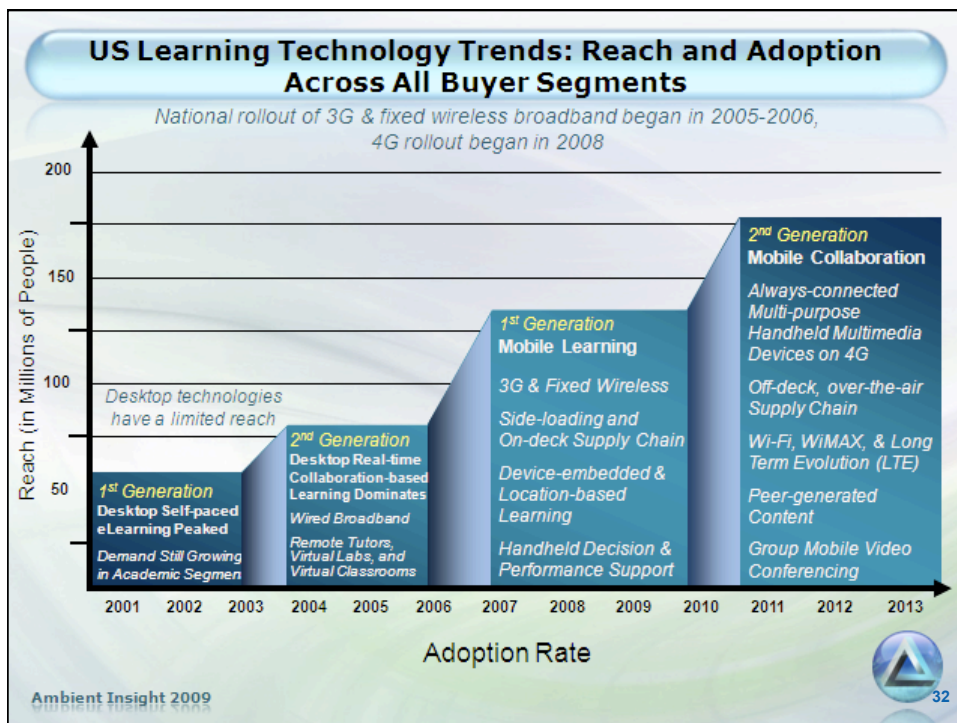


Strength through
knowledge

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Future Directions





Looking Ahead...

- Location (already here)
- Mobile broadband
- Recognition
- Accelerometers
- Context aware
- Machine to machine
- Personalization
- Sensors
 - Orientation
 - Heart rate
 - Blood glucose
 - Pulse

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Interactivity



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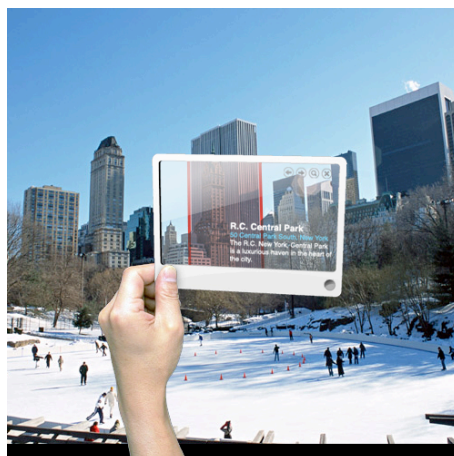
Samsung Show Hands-on and Video at MWC



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Transparent Devices



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Real-time Object Recognition



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Next Generation Solutions

- Context aware
- Location Services
- Sensors
- Accelerometers
- Orientation sensors
- Heart rate
- Blood glucose

<http://fullpower.com>



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Where Do I Learn More?



Resources

- ADL Portal
 - <http://www.ADLNet.gov/>
- mlearnopedia
 - <http://mlearnopedia.com/>
 - <http://cc.mlearnopedia.com>



Questions or Comments?

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